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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,736	05/30/2003	Nikolay Zheludev	H48.12-0001	5367
7590 09/16/2004		EXAMINER		
Westman Champlin & Kelly			NGUYEN, HOANG V	
International Centre Suite 1600 900 Second Avenue South			ART UNIT	PAPER NUMBER
Minneapolis, MN 55402-3319			2821	
			DATE MAILED: 09/16/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/937,736	ZHELUDEV ET AL.			
		Examiner	Art Unit			
		Hoang V Nguyen	2821			
Period fo	The MAILING DATE of this communication r Reply	appears on the cover sheet wi	h the correspondence address			
THE N - Exten after 3 - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory perese to reply within the set or extended period for reply will, by steply received by the Office later than three months after the mid patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MON atute, cause the application to become AB	eply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status						
1)[Responsive to communication(s) filed on _					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ 1	This action is non-final.				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1 and 2 is/are pending in the applida) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1 and 2 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	drawn from consideration.				
Application	on Papers					
10)🖾 -	The specification is objected to by the Examine drawing(s) filed on <u>28 September 2001</u> Applicant may not request that any objection to Replacement drawing sheet(s) including the confine oath or declaration is objected to by the	is/are: a)⊠ accepted or b) the drawing(s) be held in abeyan rection is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12)⊠ <i>/</i> a)[Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Buree the attached detailed Office action for a	ents have been received. ents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment		🗖				
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB 'No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152) 			

Application Number: 09/937,736 Page 2

Art Unit: 2821

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1 and 2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, lines 3-4, the phrase "a super-toroidal conductor including a length of conductor l" is vague. The examiner cannot ascertain the physical length of the conductor.

Claim 2, lines 4-5, is rejected for the same reason. Clarification/correction required.

Regarding claim 1, lines 5-7, the examiner is unclear as what was meant by the phrase "electrical signals having at least a selected frequency which is not less than 2c/l...". Claim 2, lines 6-7, is rejected for the same reason. Clarification/correction required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaiser et al (WO 95/03850).

Application Number: 09/937,736

Art Unit: 2821

Regarding claim 1, Vaiser (Figures 1a-1c) discloses an apparatus for transmitting information by means of electromagnetic fields in free space comprising an antenna in the form of super-toroidal conductor; an electrical generator (page 4, lines 26-32) controllable to produce electrical signals having a selected frequency; a modulator to modulate the electrical signals in accordance with the information to be transmitted. Vaiser does not explicitly mention a coupler. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a coupler in order to couple electrical signals from the generator to energize the antenna for the purpose to launching the electromagnetic field to transmit the information.

Regarding claim 2, Vaiser (Figures 1a-1c) discloses an apparatus for receiving information by means of electromagnetic fields in free space from a distant source comprising an antenna in the form of super-toroidal conductor; a receiver (page 5, lines 11-27) controllable to receive electrical signals having a selected frequency. Vaiser fails to explicitly mention a coupler and a detector. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a coupler between the antenna and the receiver and a detector in order to detect and extract information from the electrical signals.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patent 6,552,530 discloses a super toroidal electric and magnetic field generator/detector.

Application Number: 09/937,736

Art Unit: 2821

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V Nguyen whose telephone number is (571) 272-1825. The examiner can normally be reached on Mondays-Fridays from 9:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hvn 9/8/04

HOANG V. NGUYEN PRIMARY EXAMINER